

## POST FOCUS EXPOSURE REPORT

**Chemical ID: P-18-0070**
**Reviewer:**
**This updated assessment is based on the Post-Focus Draft Revision 1 dated 4/20/2018.**

### Results Table: Dose, Concentration, and Days Exceeded Results Summary

Exposure Scenario <sup>1</sup>	Water						Landfill	Stack Air		Fugitive Air	
Release activity(ies) <sup>2</sup> ; exposure calculation(s) <sup>3</sup>	Drinking Water		Fish Ingestion		7Q10 <sup>4</sup> CC = 670	PDM Days Exceeded	LADD	ADR (24-hr conc.)	LADD (Annual conc.)	ADR (24-hr conc.)	LADD (Annual conc.)
	ADR	LADD	ADR	LADD							
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day (µg/m <sup>3</sup> )	mg/kg/day (µg/m <sup>3</sup> )	mg/kg/day (µg/m <sup>3</sup> )	mg/kg/day (µg/m <sup>3</sup> )
<b>MFG:Max ADR: max acute eco</b>	<b>4.74e-2</b>	--	<b>5.20e-3</b>	--	<b>2.06e+3</b>	--	--	-- (--)	-- (--)	-- (--)	-- (--)
<b>MFG:Max LADD</b>	--	<b>4.87e-5</b>	--	<b>1.05e-6</b>	--	--	<b>1.66e-3</b>	-- (--)	-- (--)	-- (--)	-- (--)
<b>PROC1:Max LADD</b>	--	--	--	--	--	--	<b>3.30e-3</b>	-- (--)	-- (--)	-- (--)	-- (--)
<b>PROC2:Max LADD</b>	--	--	--	--	--	--	<b>2.32e-3</b>	-- (--)	-- (--)	-- (--)	-- (--)
<b>PROC3:Max LADD</b>	--	--	--	--	--	--	<b>6.62e-4</b>	-- (--)	-- (--)	-- (--)	-- (--)
<b>PROC4:Max LADD</b>	--	--	--	--	--	--	<b>3.31e-4</b>	-- (--)	-- (--)	-- (--)	-- (--)
<b>USE1:Max ADR</b>	--	--	--	--	--	--	--	-- (--)	-- (--)	<b>3.50e-1 (1.91e+3)</b>	-- (--)
<b>USE1:Max LADD</b>	--	--	--	--	--	--	<b>1.27e-2</b>	-- (--)	-- (--)	-- (--)	<b>7.74e-3 (1.00e+2)</b>
<b>USE2:Max LADD</b>	--	--	--	--	--	--	<b>8.22e-4</b>	-- (--)	-- (--)	-- (--)	-- (--)

<sup>1</sup> Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.

<sup>2</sup> Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.

<sup>3</sup> Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario. CC is the aquatic concentration of concern.

<sup>4</sup> This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.

**Remarks:**

### Results Table: Consumer Exposure Results Summary

**Note:** The below results assume that all of the PMN material present in the use formulation would be available for release/exposure and that exposure to the chemical via dust is possible. Per chemistry, some feedstocks could be trapped in the polymer matrix as it is generated and could be released over time (though dust exposure may not be relevant here). Likely only a few percent would remain unreacted.

Scenario	Inhalation		Ingestion		Dermal	
	Adult ADR	Adult ADD	Adult ADR	Adult ADD	Adult ADR	Adult ADD
	(Infant ADR)	(Infant ADD)	(Infant ADR)	(Infant ADD)	(Infant ADR)	(Infant ADD)
	mg/kg/ day	mg/kg/ day	mg/kg/ day	mg/kg/ day	mg/kg/ day	mg/kg/ day

██████████	6.2E-04 (2.4E-03)	6.16E-04 (2.38E-03)	3.13E-02 (0.32)	3.02E-02 (0.31)	12.8 (26.6)	12.8 (26.6)
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These exposures were estimated using article exposure scenarios from **CEM 2.0**, with weight fraction and pchem and fate inputs, along with some uncertain inputs such as adherence factor, absorption factor, and ingestion factor (assumed equal to 0.5, 0.01, and 0.01, respectively).

### Results Table: Exposure Based (XB)/Persistent (P2B2) Criteria

Parameter	Exp Based	Persistent	Exceedance Value
Drinking(Surface) Water Dose (mg/kg/day)	No	NA	--
Fish Ingestion Dose (mg/kg/day)	No	NA	--
Inhalation Dose (mg/kg/day)	Yes	NA	██████████
Groundwater Dose (mg/kg/day)	Yes	NA	██████████
Surface Water Release After Treatment (kg/yr)	No	NA	--
Total Release After Treatment (kg/yr)	Yes	NA	██████████
Consumer Use?	Yes		

Fate test recommendations?: (default is NA)

### SCALING FACTORS FOR DRINKING WATER DOSE

Age Group	Scaling Factor for ADR	Scaling Factor for ADD
Adults	1.0	1.0
<b>Birth to 1</b>	<b>4.17</b>	<b>11.49</b>
1-2	1.63	3.91
3-5	1.24	3.10
6-10	1.12	2.51
11-15	0.83	1.77
16-21	0.79	1.55
Pregnant	1.02	2.07
Lactating	1.31	3.84

Scaling factors for ADR are based on the ratio of 95<sup>th</sup> percentile drinking water intake/body weight for each age group compared to the 95<sup>th</sup> percentile drinking water intake/body weight ratio for adults from Table 3-1 of the 2011 edition of the Exposure Factors Handbook.

Scaling factors for age specific ADD are based on the ratio of the mean drinking water intake/body weight for each age group compared to the mean drinking water intake/body weight ratio for adults from Table 3-1 of the 2011 edition of the Exposure Factors Handbook.

Note, default LADD values are based on assumption that 33 years of lifetime exposure occurs in adulthood. If that exposure starts at birth, the LADD increases by 10% (1.1). However, central tendency duration (13 years) and consideration of age specific adjustment factors (ADAF) can be considered on an as needed basis (LADD Scaling factors range from 0.6 to 4.1).

# POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor:

ENVIRONMENTAL RELEASES
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Scenario#:1

Number of Release Sites: 1.

Release Activity: MFG:Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

--	--	--	--	--

Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:1

RELEASE ACTIVITY: MFG:Max ADR

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Unk DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	0.00	3.00

## AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	100.61	39.94	24.23	20.10	NA
CONCENTRATION (µg/L)	496.98	1251.92	2063.56	2487.49	NA

## DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	7.49E-06 mg/kg/day		1.62E-07 mg/kg/day	
LADC <sub>pot</sub>	5.76E-04 mg/L		1.73E-03 mg/kg	
Acute				
ADR <sub>pot</sub>	4.74E-02 mg/kg/day		5.20E-03	mg/kg/day

Surface Water Comments:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:2

Number of Release Sites: [REDACTED]

Release Activity: MFG:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:2

RELEASE ACTIVITY: MFG:Max LADD

FACILITY NAME: [REDACTED]

FACILITY LOCATION: [REDACTED]

RECEIVING WATER NAME: [REDACTED]

REACH NUMBER: [REDACTED]

FACILITY ON REACH: Unk DISCHARGE TYPE: Direct

NPDES PERMIT #: [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

## AQUATIC EXPOSURE ESTIMATES - SURFACE WATER

FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)	100.61	39.94	24.23	20.10	NA
CONCENTRATION (µg/L)	N/A	N/A	N/A	N/A	NA

## DRINKING WATER INGESTION AND FISH INGESTION EXPOSURE ESTIMATES

Exposure Units	Drinking Water Results	Drinking Water Units	Fish Ingestion Results	Fish Ingestion Units
Cancer				
LADD <sub>pot</sub>	4.87E-05 mg/kg/day		1.05E-06 mg/kg/day	
LADC <sub>pot</sub>	3.74E-03 mg/L		1.12E-02 mg/kg	
Acute				
ADR <sub>pot</sub>	N/A mg/kg/day		N/A	mg/kg/day

Surface Water Comments:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 2

ACTIVITY: MFG:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
1	██████████	██████████	████	████	████

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	1.66E-03	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	0.13	33.00	78.00	NA	NA

REMARKS:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: [REDACTED]

Release Activity: PROC1:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:



## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 3

ACTIVITY: PROC1:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	3.30E-03	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	0.25	33.00	78.00	NA	NA

REMARKS:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:3

Number of Release Sites: [REDACTED]

Release Activity: PROC2:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 4

ACTIVITY: PROC2:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	2.32E-03	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	0.18	33.00	78.00	NA	NA

REMARKS:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:5

Number of Release Sites: [REDACTED]

Release Activity: PROC3:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 5

ACTIVITY: PROC3:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	6.62E-04	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	5.09E-02	33.00	78.00	NA	NA

REMARKS:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:6

Number of Release Sites: [REDACTED]

Release Activity: PROC4:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 6

ACTIVITY: PROC4:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	3.31E-04	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	2.55E-02	33.00	78.00	NA	NA

REMARKS:

# POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor:

## ENVIRONMENTAL RELEASES

Scenario#:7

Number of Release Sites:

Release Activity: USE1:Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
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Total Releases:

	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

Non-sludge/Sludge

Release Days/yr:

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Per Site Release:

	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:



## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 7

RELEASE ACTIVITY:USE1:Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:

■

Per Site Fugitive Release:

■

kg/site/day

Fugitive Release Days per Year:

■

days

% Removal via Fugitive Release:

■

%

Total Fugitive Release:

■

kg/yr

Max Annual Average Air Concentration  
(Fugitive):

100.00

 $\mu\text{g}/\text{m}^3$ Max 24 Hour Average Air  
Concentration(Fugitive):

1910.00

 $\mu\text{g}/\text{m}^3$ 

Per Site Stack Release:

■

kg/site/day

Stack Release Days per Year:

■

days

% Removal via Stack Release:

■

%

Total Stack Release:

■

kg/yr

Max Annual Average Air Concentration (Stack):

0.00

 $\mu\text{g}/\text{m}^3$ 

Max 24 Hour Average Air Concentration (Stack):

0.00

 $\mu\text{g}/\text{m}^3$ 

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m <sup>3</sup> /hr)
Cancer						
LADD <sub>pot</sub> (mg/kg/day)	N/A	7.74E-03	33.00	78.00	80.00	0.61
LADC <sub>pot</sub> (mg/m <sup>3</sup> )	N/A	4.23E-02	33.00	78.00	NA	NA
Acute						
ADR <sub>pot</sub> (mg/kg/day)	N/A	0.35	NA	1 day	80.00	0.61

Inhalation Comments:

## Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

## Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

## Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

## Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor: [REDACTED]

## ENVIRONMENTAL RELEASES

Scenario#:8

Number of Release Sites: [REDACTED]

Release Activity: USE1:Max LADD

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)	[REDACTED] (kg/yr)
Non-sludge/Sludge				
Release Days/yr:	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Per Site Release:	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)	[REDACTED] (kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 8

ACTIVITY: USE1:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	1.27E-02	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	0.98	33.00	78.00	NA	NA

REMARKS:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)
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SCENARIO #: 8

RELEASE ACTIVITY:USE1:Max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:

■

Per Site Fugitive Release:

■

kg/site/day

Fugitive Release Days per Year:

■

days

% Removal via Fugitive Release:

■

%

Total Fugitive Release:

■

kg/yr

Max Annual Average Air Concentration  
(Fugitive):

100.00

 $\mu\text{g}/\text{m}^3$ Max 24 Hour Average Air  
Concentration(Fugitive):

N/A

 $\mu\text{g}/\text{m}^3$ 

Per Site Stack Release:

■

kg/site/day

Stack Release Days per Year:

■

days

% Removal via Stack Release:

■

%

Total Stack Release:

■

kg/yr

Max Annual Average Air Concentration (Stack):

0.00

 $\mu\text{g}/\text{m}^3$ 

Max 24 Hour Average Air Concentration (Stack):

N/A

 $\mu\text{g}/\text{m}^3$ 

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m <sup>3</sup> /hr)
Cancer						
LADD <sub>pot</sub> (mg/kg/day)	N/A	7.74E-03	33.00	78.00	80.00	0.61
LADC <sub>pot</sub> (mg/m <sup>3</sup> )	N/A	4.23E-02	33.00	78.00	NA	NA
Acute						
ADR <sub>pot</sub> (mg/kg/day)	N/A	N/A	NA	1 day	80.00	0.61

Inhalation Comments:

## Stack Parameter Data

Stack Height	10.00
Inside Stack Diameter:	0.10
Stack Gas Exit Velocity:	0.10
Stack Gas Temperature:	293.00

## Fugitive Parameter Data

Release Height:	3.00	m
Length of Release Opening:	10.00	m
Width of Release Opening:	10.00	m

## Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

## Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

# POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

Assessor:

## ENVIRONMENTAL RELEASES

Scenario#:9

Number of Release Sites:

Release Activity: USE2:Max LADD

Release Description:	WATER	LANDFILL		
		Non-		

Total Releases:

(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

### Non-sludge/Sludge

Release Days/yr:

--	--	--	--

Per Site Release:

--	--	--	--

(kg/site/day)

(kg/site/day)

(kg/site/day)

(kg/site/day)

Remarks:

## POST FOCUS EXPOSURE REPORT

Chemical ID: P-18-0070

## DRINKING WATER EXPOSURE ESTIMATES FROM LANDFILL RELEASES

SCENARIO #: 9

ACTIVITY: USE2:Max LADD

RELEASE DESCRIPTION:

EXPOSED POPULATION: Adult

NUMBER OF SITES	NON-SLUDGE LANDFILL RELEASE AND DAYS OF RELEASE (kg/site/day)/(days)	LANDFILLED SLUDGE <sup>1</sup> AND DAYS OF RELEASE (kg/site/day)/(days)	MIGRATION DESCRIPTOR <sup>2</sup>	ADSORPTION TO WASTEWATER SLUDGE (%)	DRINKING WATER TREATMENT (%)
■	■	■	■	■	■

<sup>1</sup> Landfilled sludge equals the fraction adsorbed to wastewater treatment sludge times the surface water pre-treatment release.

Migration Descriptor	Log Koc	Groundwater Concentration (GWC) (mg/L per kg release)
Negligible	no migration	None
Negligible to slow	> 4.5	3.21E-6
Slow	<4.5 to 3.5	2.67E-5
Moderate	<3.5 to 2.5	5.95E-5
Rapid	<2.5	7.55E-5

Exposure Units	Results	ASSUMPTIONS			
		ED (years)	AT (years)	BW (kg)	IR (L/day)
Cancer					
LADD <sub>pot</sub> (mg/kg/day)	8.22E-04	33.00	78.00	80.00	1.04
LADC <sub>pot</sub> (mg/L)	6.32E-02	33.00	78.00	NA	NA

REMARKS: